

SEQUENCE LISTING

<110> Hu, Jing-Shan
Rosen, Craig
Liang, Cao

<120> Vascular Endothelial Growth Factor 2

<130> PF112P1

<140> 08/465,968

<141> 1995-06-06

<150> 08/207,550

<151> 1994-03-08

<160> 10

<170> PatentIn Ver. 2.0

<210> 1

<211> 1674

<212> DNA

<213> Homo sapiens

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ctc gcc gct gcg ctg ctc ccg ggt cct cgc gag gcg ccc gcc gcc gcc 98
Leu Ala Ala Ala Leu Leu Pro Gly Pro Arg Glu Ala Pro Ala Ala Ala
-30 -25 -20

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Ala Ala Phe Glu Ser Gly Leu Asp Leu Ser Asp Ala Glu Pro Asp Ala
-15 -10 -5

ggc gag gcc acg gct tat gca agc aaa gat ctg gag gag cag tta cgg 194
Gly Glu Ala Thr Ala Tyr Ala Ser Lys Asp Leu Glu Glu Gln Leu Arg
-1 1 5 10 15

tct gtg tcc agt gta gat gaa ctc atg act gta ctc tac cca gaa tat 242
Ser Val Ser Ser Val Asp Glu Leu Met Thr Val Leu Tyr Pro Glu Tyr
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tgg aaa atg tac aag tgt cag cta agg aaa gga ggc tgg caa cat aac 290
Trp Lys Met Tyr Lys Cys Gln Leu Arg Lys Gly Gly Trp Gln His Asn
35 40 45

aga gaa cag gcc aac ctc aac tca agg aca gaa gag act ata aaa ttt	338
Arg Glu Gln Ala Asn Leu Asn Ser Arg Thr Glu Glu Thr Ile Lys Phe	
50 55 60	
gct gca gca cat tat aat aca gag atc ttg aaa agt att gat aat gag	386
Ala Ala Ala His Tyr Asn Thr Glu Ile Leu Lys Ser Ile Asp Asn Glu	
65 70 75	
tgg aga aag act caa tgc atg cca cgg gag gtg tgt ata gat gtg ggg	434
Trp Arg Lys Thr Gln Cys Met Pro Arg Glu Val Cys Ile Asp Val Gly	
80 85 90 95	
aag gag ttt gga gtc gcg aca aac acc ttc ttt aaa cct cca tgt gtg	482
Lys Glu Phe Gly Val Ala Thr Asn Thr Phe Phe Lys Pro Pro Cys Val	
100 105 110	
tcc gtc tac aga tgt ggg ggt tgc tgc aat agt gag ggg ctg cag tgc	530
Ser Val Tyr Arg Cys Gly Gly Cys Cys Asn Ser Glu Gly Leu Gln Cys	
115 120 125	
atg aac acc agc acg agc tac ctc agc aag acg tta ttt gaa att aca	578
Met Asn Thr Ser Thr Ser Tyr Leu Ser Lys Thr Leu Phe Glu Ile Thr	
130 135 140	
gtg cct ctc tct caa ggc ccc aaa cca gta aca atc agt ttt gcc aat	626
Val Pro Leu Ser Gln Gly Pro Lys Pro Val Thr Ile Ser Phe Ala Asn	
145 150 155	
cac act tcc tgc cga tgc atg tct aaa ctg gat gtt tac aga caa gtt	674
His Thr Ser Cys Arg Cys Met Ser Lys Leu Asp Val Tyr Arg Gln Val	
160 165 170 175	
cat tcc att att aga cgt tcc ctg cca gca aca cta cca cag tgt cag	722
His Ser Ile Ile Arg Arg Ser Leu Pro Ala Thr Leu Pro Gln Cys Gln	
180 185 190	
gca gcg aac aag acc tgc ccc acc aat tac atg tgg aat aat cac atc	770
Ala Ala Asn Lys Thr Cys Pro Thr Asn Tyr Met Trp Asn Asn His Ile	
195 200 205	
tgc aga tgc ctg gct cag gaa gat ttt atg ttt tcc tcg gat gct gga	818
Cys Arg Cys Leu Ala Gln Glu Asp Phe Met Phe Ser Ser Asp Ala Gly	
210 215 220	
gat gac tca aca gat gga ttc cat gac atc tgt gga cca aac aag gag	866
Asp Asp Ser Thr Asp Gly Phe His Asp Ile Cys Gly Pro Asn Lys Glu	
225 230 235	
ctg gat gaa gag acc tgt cag tgt gtc tgc aga gcg ggg ctt cgg cct	914
Leu Asp Glu Glu Thr Cys Gln Cys Val Cys Arg Ala Gly Leu Arg Pro	
240 245 250 255	
gcc agc tgt gga ccc cac aaa gaa cta gac aga aac tca tgc cag tgt	962
Ala Ser Cys Gly Pro His Lys Glu Leu Asp Arg Asn Ser Cys Gln Cys	
260 265 270	
gtc tgt aaa aac aaa ctc ttc ccc agc caa tgt ggg gcc aac cga gaa	1010
Val Cys Lys Asn Lys Leu Phe Pro Ser Gln Cys Gly Ala Asn Arg Glu	
275 280 285	

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Phe Asp Glu Asn Thr Cys Gln Cys Val Cys Lys Arg Thr Cys Pro Arg
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aat caa ccc cta aat cct gga aaa tgt gcc tgt gaa tgt aca gaa agt 1106
Asn Gln Pro Leu Asn Pro Gly Lys Cys Ala Cys Glu Cys Thr Glu Ser
      305                      310                      315

cca cag aaa tgc ttg tta aaa gga aag aag ttc cac cac caa aca tgc 1154
Pro Gln Lys Cys Leu Leu Lys Gly Lys Lys Phe His His Gln Thr Cys
      320                      325                      330

agc tgt tac aga cgg cca tgt acg aac cgc cag aag gct tgt gag cca 1202
Ser Cys Tyr Arg Arg Pro Cys Thr Asn Arg Gln Lys Ala Cys Glu Pro
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Gln Arg Pro Gln Met Ser
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Thr Ala Tyr Ala Ser Lys Asp Leu Glu Glu Gln Leu Arg Ser Val Ser
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Tyr Lys Cys Gln Leu Arg Lys Gly Gly Trp Gln His Asn Arg Glu Gln

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His Tyr Asn Thr Glu Ile Leu Lys Ser Ile Asp Asn Glu Trp Arg Lys						
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Thr Gln Cys Met Pro Arg Glu Val Cys Ile Asp Val Gly Lys Glu Phe						
	85			90		95
Gly Val Ala Thr Asn Thr Phe Phe Lys Pro Pro Cys Val Ser Val Tyr						
	100			105		110
Arg Cys Gly Gly Cys Cys Asn Ser Glu Gly Leu Gln Cys Met Asn Thr						
	115			120		125
Ser Thr Ser Tyr Leu Ser Lys Thr Leu Phe Glu Ile Thr Val Pro Leu						
	135			140		145
Ser Gln Gly Pro Lys Pro Val Thr Ile Ser Phe Ala Asn His Thr Ser						
	150			155		160
Cys Arg Cys Met Ser Lys Leu Asp Val Tyr Arg Gln Val His Ser Ile						
	165			170		175
Ile Arg Arg Ser Leu Pro Ala Thr Leu Pro Gln Cys Gln Ala Ala Asn						
	180			185		190
Lys Thr Cys Pro Thr Asn Tyr Met Trp Asn Asn His Ile Cys Arg Cys						
	195			200		205
Leu Ala Gln Glu Asp Phe Met Phe Ser Ser Asp Ala Gly Asp Asp Ser						
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Thr Asp Gly Phe His Asp Ile Cys Gly Pro Asn Lys Glu Leu Asp Glu						
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Glu Thr Cys Gln Cys Val Cys Arg Ala Gly Leu Arg Pro Ala Ser Cys						
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Gly Pro His Lys Glu Leu Asp Arg Asn Ser Cys Gln Cys Val Cys Lys						
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Asn Lys Leu Phe Pro Ser Gln Cys Gly Ala Asn Arg Glu Phe Asp Glu						
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Asn Thr Cys Gln Cys Val Cys Lys Arg Thr Cys Pro Arg Asn Gln Pro						
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Leu Asn Pro Gly Lys Cys Ala Cys Glu Cys Thr Glu Ser Pro Gln Lys						
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Cys Leu Leu Lys Gly Lys Lys Phe His His Gln Thr Cys Ser Cys Tyr						
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Arg Arg Pro Cys Thr Asn Arg Gln Lys Ala Cys Glu Pro Gly Phe Ser						
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Gln Met Ser

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35 40 45
Glu Ile Asp Ser Val Gly Ser Glu Asp Ser Leu Asp Thr Ser Leu Arg
50 55 60
Ala His Gly Val His Ala Thr Lys His Val Pro Glu Lys Arg Pro Leu
65 70 75 80
Pro Ile Arg Arg Lys Arg Ser Ile Glu Glu Ala Val Pro Ala Val Cys
85 90 95
Lys Thr Arg Thr Val Ile Tyr Glu Ile Pro Arg Ser Gln Val Asp Pro
100 105 110
Thr Ser Ala Asn Phe Leu Ile Trp Pro Pro Cys Val Glu Val Lys Arg
115 120 125
Cys Thr Gly Cys Cys Asn Thr Ser Ser Val Lys Cys Gln Pro Ser Arg
130 135 140
Val His His Arg Ser Val Lys Val Ala Lys Val Glu Tyr Val Arg Lys
145 150 155 160
Lys Pro Lys Leu Lys Glu Val Gln Val Arg Leu Glu Glu His Leu Glu
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Thr Asp Val Arg
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Gly Gly Gln Asn His His Glu Val Val Lys Phe Met Asp Val Tyr Gln
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Arg Ser Tyr Cys His Pro Ile Glu Thr Leu Val Asp Ile Phe Gln Glu

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Thr Glu Glu Ser Asn Ile Thr Met Gln Ile Met Arg Ile Lys Pro His		
	100	105 110
Gln Gly Gln His Ile Gly Glu Met Ser Phe Leu Gln His Asn Lys Cys		
	115	120 125
Glu Cys Arg Pro Lys Lys Asp Arg Ala Arg Gln Glu Lys Lys Ser Val		
	130	135 140
Arg Gly Lys Gly Lys Gly Gln Lys Arg Lys Arg Lys Lys Ser Arg Tyr		
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Lys Ser Trp Ser Val Tyr Val Gly Ala Arg Cys Cys Leu Met Pro Trp		
	165	170 175
Ser Leu Pro Gly Pro His Pro Cys Gly Pro Cys Ser Glu Arg Arg Lys		
	180	185 190
His Leu Phe Val Gln Asp Pro Gln Thr Cys Lys Cys Ser Cys Lys Asn		
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Cys Arg Cys Asp Lys Pro Arg Arg		
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<211> 28
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<400> 8
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<210> 9
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<400> 9
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<210> 10
<211> 60
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